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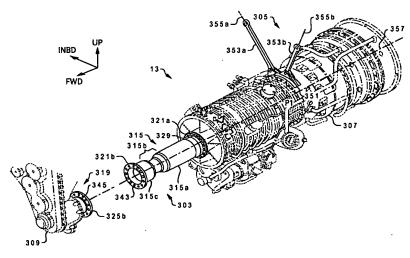
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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: TORSIONALLY DE-COUPLED ENGINE MOUNT SYSTEM



(57) Abstract: A torsionally de-coupled engine mount system (13) for use in tilt rotor aircraft (11) applications is disclosed, in which an engine is mounted at its forward end to a prop rotor gear box by means of a forward mount (303) that is a simple adapter fitting, and at its aft end to a pylon assembly by an aft mount (305) that is a simple bi-pod fitting. The forward mount (303) counteracts forces and moments in six degrees of freedom, but the aft mount (305) only counteracts lateral and vertical loads. The contribution from the engine to the overall dynamic response of the aircraft is tuned by selectively tailoring the size, shape, weight, and material of the forward mount (303). The engine mount system torsionally de-couples the engines from the prop rotors, thereby preventing rotor torque from being induced into the engines. In addition, the contribution from the engines to the overall dynamic response of the aircraft can be tuned by selectively tailoring the size, shape, weight, and material of the forward mounts between the engines and the transmissions.

INTERNATIONAL ARCH REPORT

International application No. PCT/2/29509

A. CLASSIFICATION OF SUBJECT MATTER					
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According to International Patent Classification (IPC) or to both national classification and IPC					
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U.S. :	244/54, 53R, 7R, 6, 17.11, 7C; 60/796, 797; 248/554-5.	57 			
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C. DOC	CUMENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where appro	opriate, of the relevant passages	Relevant to claim No.		
Y	US 4,899,959 A (WEILER) 13 FEBRU	ARY 1990, SEE ENTIRE	1-5, 12-16		
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Y	US 6,260,351 A (DELANO ET AL) 17 I	III V 2001 SEE ENTIRE	6-11, 16-19		
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A	 US 6 260 793 A (BALAYN ET AL) 17	IULY 2001 SEE ENTIRE			
11	US 6,260,793 A (BALAYN ET AL) 17 JULY 2001, SEE ENTIRE DOCUMENT				
A	US 5,181,675 A (LARDELLIER ET AL) 26 JANUARY 1993, SEE				
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"P" document published prior to the international filing date but later "&" document member of the same patent family than the priority date claimed					
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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT				
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A	US 5,823,470 A (CRAIG ET AL) 20 OCTOBER 1998, SEE ENTIRE DOCUMENT			
A	US 6,095,456 A (POWELL) 01 AUGUST 200, SEE ENTIRE DOCUMENT			
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